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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,518	07/08/2003	Kiminori Tamai	240077US0DIV	7631
22850 7590 06/25/2007 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			. EXAMINER	
			MAZUMDAR, SONYA	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1734	
			NOTIFICATION DATE	DELIVERY MODE
			06/25/2007	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(a)			
		Applicant(s)			
Office Action Summers	10/614,518	TAMAI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Sonya Mazumdar	1734			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status		•			
1) Responsive to communication(s) filed on 03 Ap 2a) This action is FINAL 2b) This 3) Since this application is in condition for allowan closed in accordance with the practice under E  Disposition of Claims	action is non-final. ce except for formal matters, pro				
4) ☐ Claim(s) 9-12,14-21 and 23-25 is/are pending i 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 9,11,12,14-18,20,21 and 23-25 is/are 7) ☐ Claim(s) 10 and 19 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on <u>08 July 2003</u> is/are: a) Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction to the original origin	☑ accepted or b) ☐ objected to be drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No. 09/859,386.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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#### DETAILED ACTION

## Response to Arguments

1. Applicant's arguments regarding the step of compressing a coating within a specific temperature range, see pages 2 through 7 of remarks filed April 10, 2007 with respect to the rejection under 35 USC 102(b)/103(a) in view of Oka et al. (US 5,976,297) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new grounds of rejection is made below under 35 USC 103(a) over Oka et al. in view of Bilhorn (US 4,197,635).

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were

prior art under 35 U.S.C. 103(a).

made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g)

3. Claims 9, 11, 12, 14 through 18, 20, 21, 23, 24, and 25 are rejected under 35 U.S.C. 103(a) as unpatentable over Oka et al. in view of Bilhorn.

With respect to claims 9, 11, 12, 14, 15, 16, 18, 20, 21, 23, and 24, Oka et al. teach forming an antireflection film, where a functional coating dispersion (2), comprising a solution of particles such as zinc oxide (ZnO<sub>2</sub>) without resin, is applied to a release film (1), applying an adhesive or uncured resin layer (4) over the coating (abstract; column 2, lines 4-7; column 12, lines 7-8 and lines 24-25; column 53, lines 31-50). The coated release film is then press-bonded and transferred onto a substrate (3) after the release film is removed thereafter (column 10, lines 49 - 65; column 55, lines 19-22; Figure 5).

However, Oka et al. fail to teach compressing a functional coating dispersion at a specific temperature. Bilhorn teach applying a conductive coating (28), such as zinc oxide in a binder without resin, to a support (22), drying the coating, and then compressing the coating through a pressure nip (35) at ambient temperature, i.e. room temperature (~25°C) (column 3, lines 8-31; column 10, lines 12-19; Figure 2).

It would have been obvious to compress the coating on a support within a certain temperature, and one would have been motivated to do so since the pressure exerted at a nip between two rollers together with the adhesive properties of a bonding agent is Application/Control Number: 10/614,518

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sufficient to compress the coating onto a support, without the necessity of elevating the temperature (column 4, lines 14-20).

With respect to claims 17 and 25, Oka et al. teach providing functional particles in the coating with an average particle diameter of no more than 200 nm (column 12, lines 26–32).

Furthermore, by applying a solution of particles with an average particle diameter of no more than 200 nm and press-bonding, it is obvious that a compressed microparticulate is formed, which does not have cracks and is especially capable of being drawn 10% without forming cracks, exhibiting a surface resistivity at most 10 times greater than the surface resistivity prior to drawing.

"Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a *prima facie* case of either anticipation or obviousness has been established." *In re Best*, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977) (see MPEP § 2112.01)

# Allowable Subject Matter

4. Claims 10 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sonya Mazumdar whose telephone number is (571) 272-6019. The examiner can normally be reached on 8:00 AM - 4:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Philip Tucker can be reached on (571) 272-1095. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Source Mayundon

PHILIPTUCKER PRIMARY EXAMINER

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